TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS

INVENTOR(S): MIKE CARLOMAGNO, ET AL.

APPLICATION SERIAL No: 10/053,252

SHEET 1 of 12

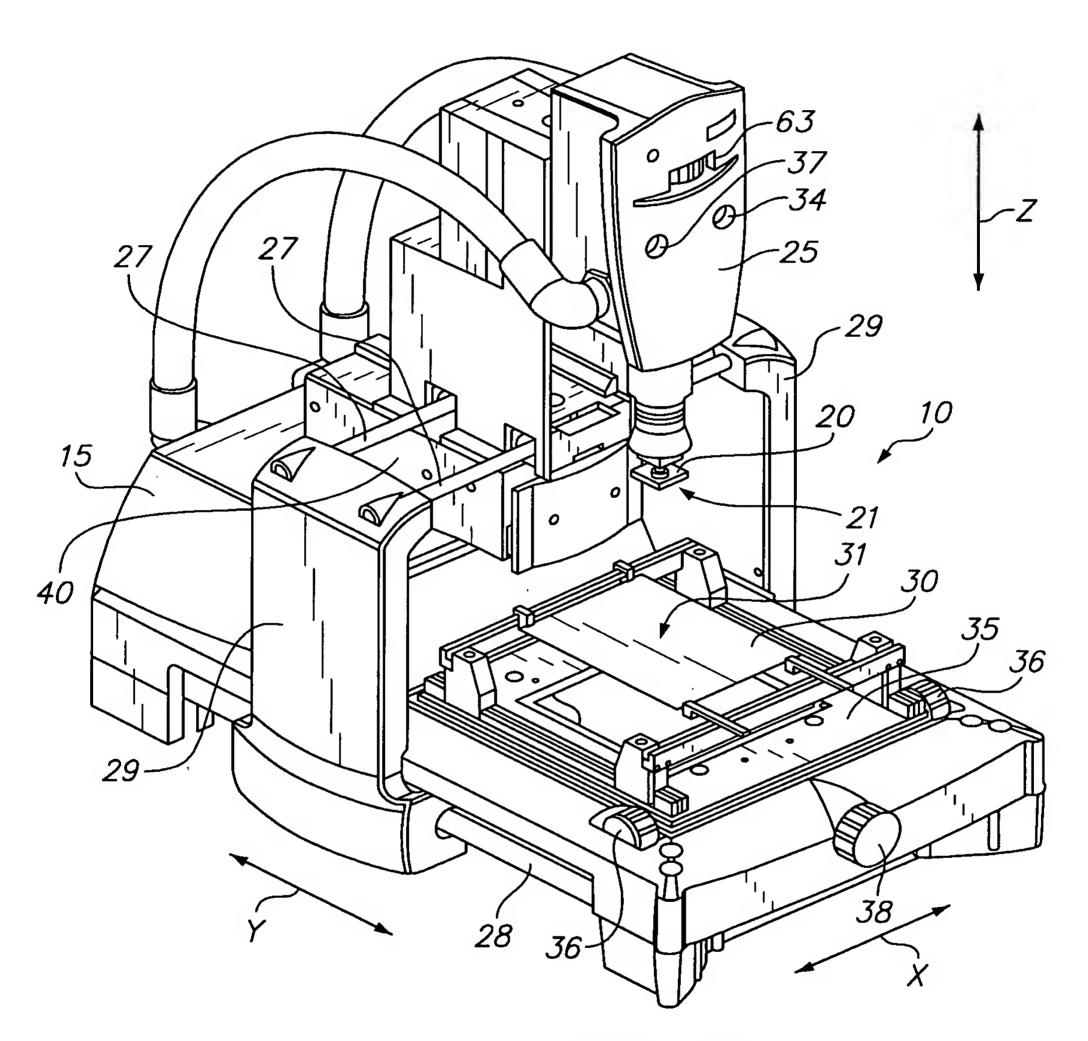


FIG. 1A

TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS

INVENTOR(S): MIKE CARLOMAGNO, ET AL.

APPLICATION SERIAL NO: 10/053,252 SHEET 2 of 12

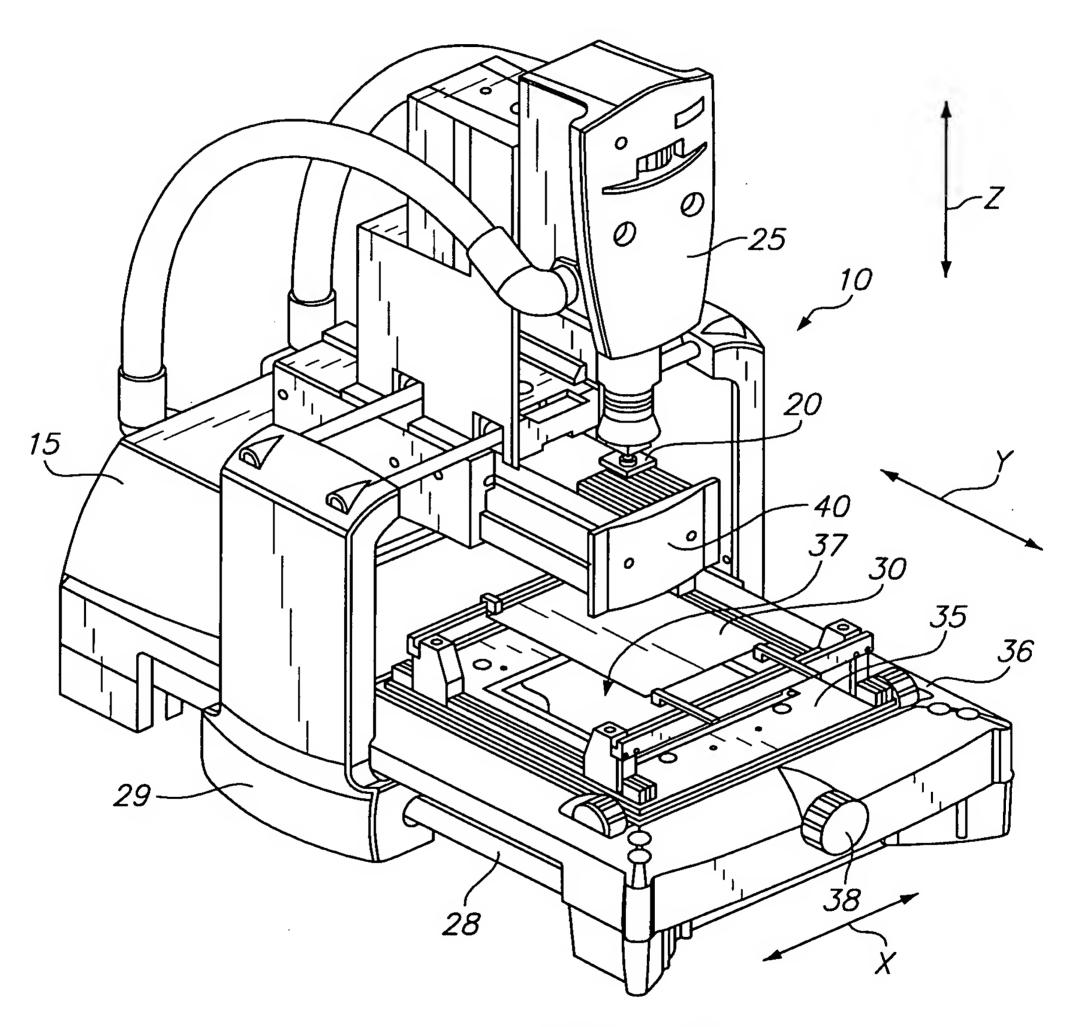


FIG. 1B

TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS

INVENTOR(S): MIKE CARLOMAGNO, ET AL.

APPLICATION SERIAL NO: 10/053,252

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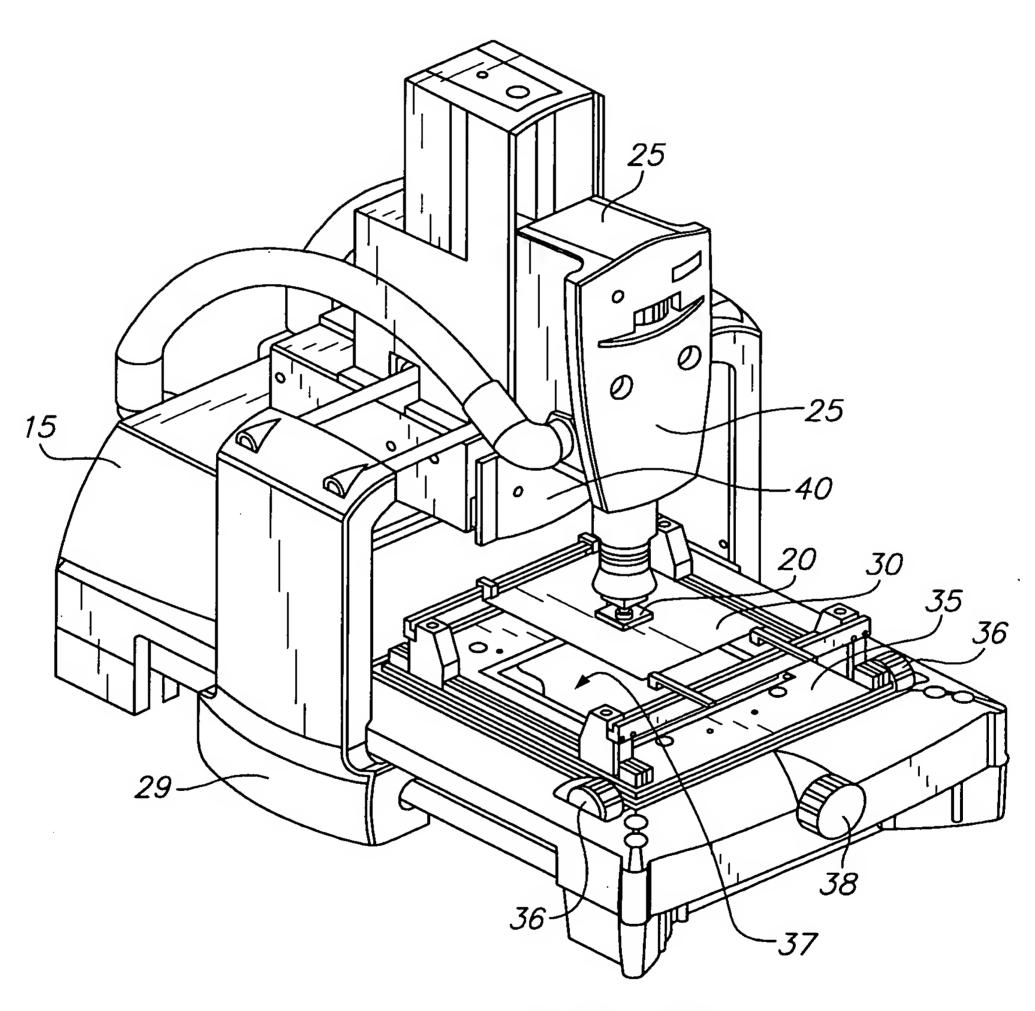
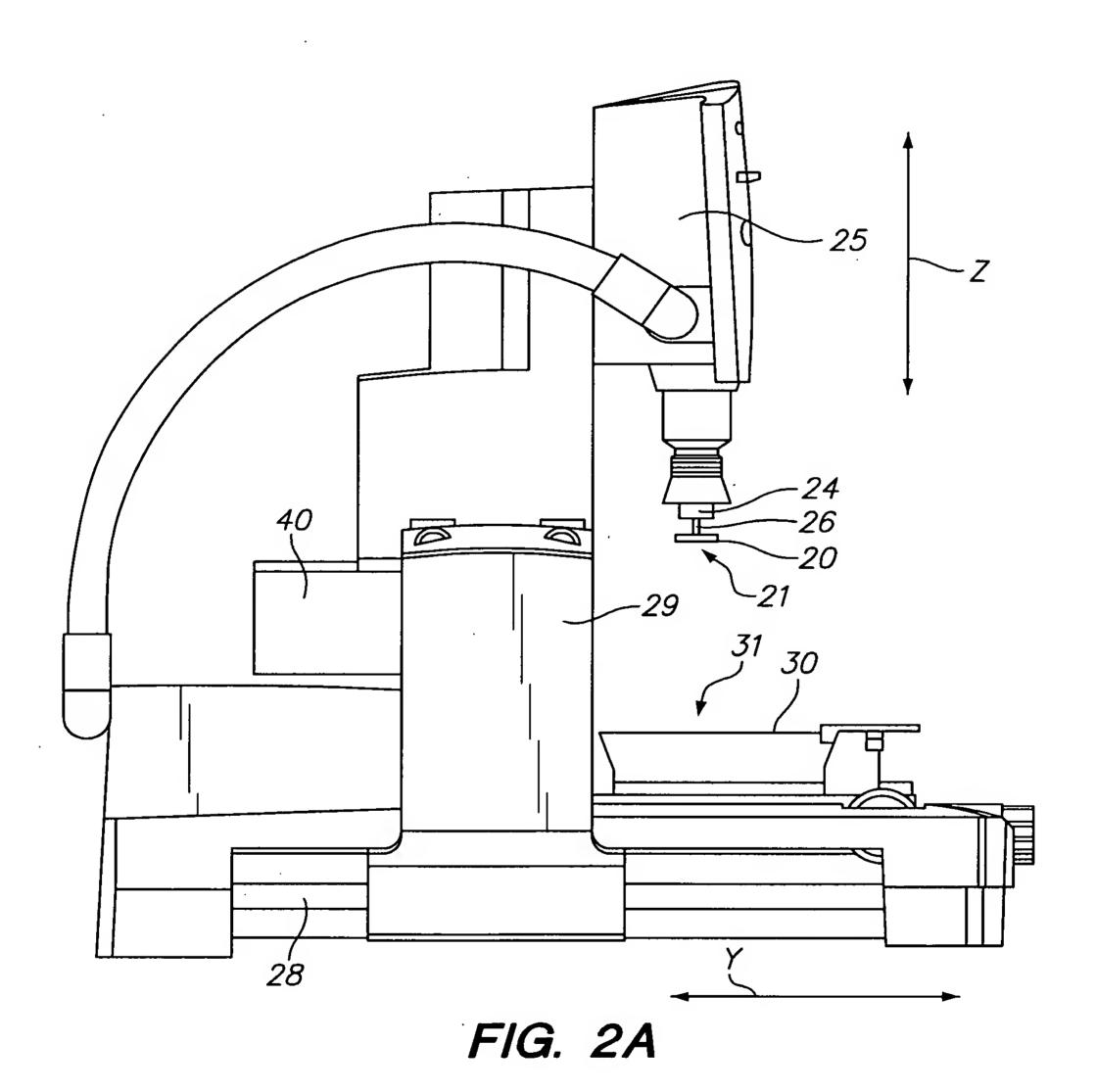


FIG. 1C

TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS

INVENTOR(S): MIKE CARLOMAGNO, ET AL.

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TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS

INVENTOR(S): MIKE CARLOMAGNO, ET AL.

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SHEET 5 of 12

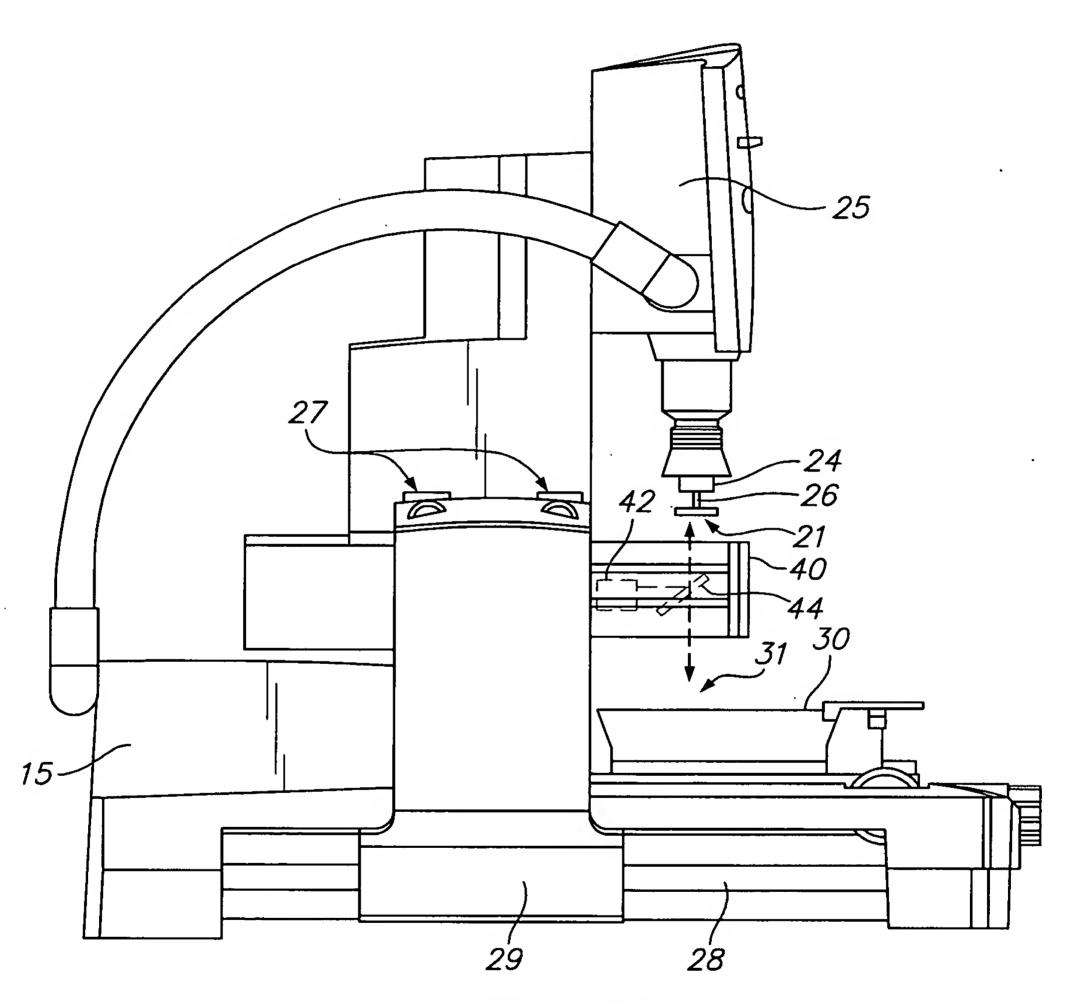


FIG. 2B

TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS

Inventor(s): Mike Carlomagno, et al. Application Serial No: 10/053,252

SHEET 6 of 12

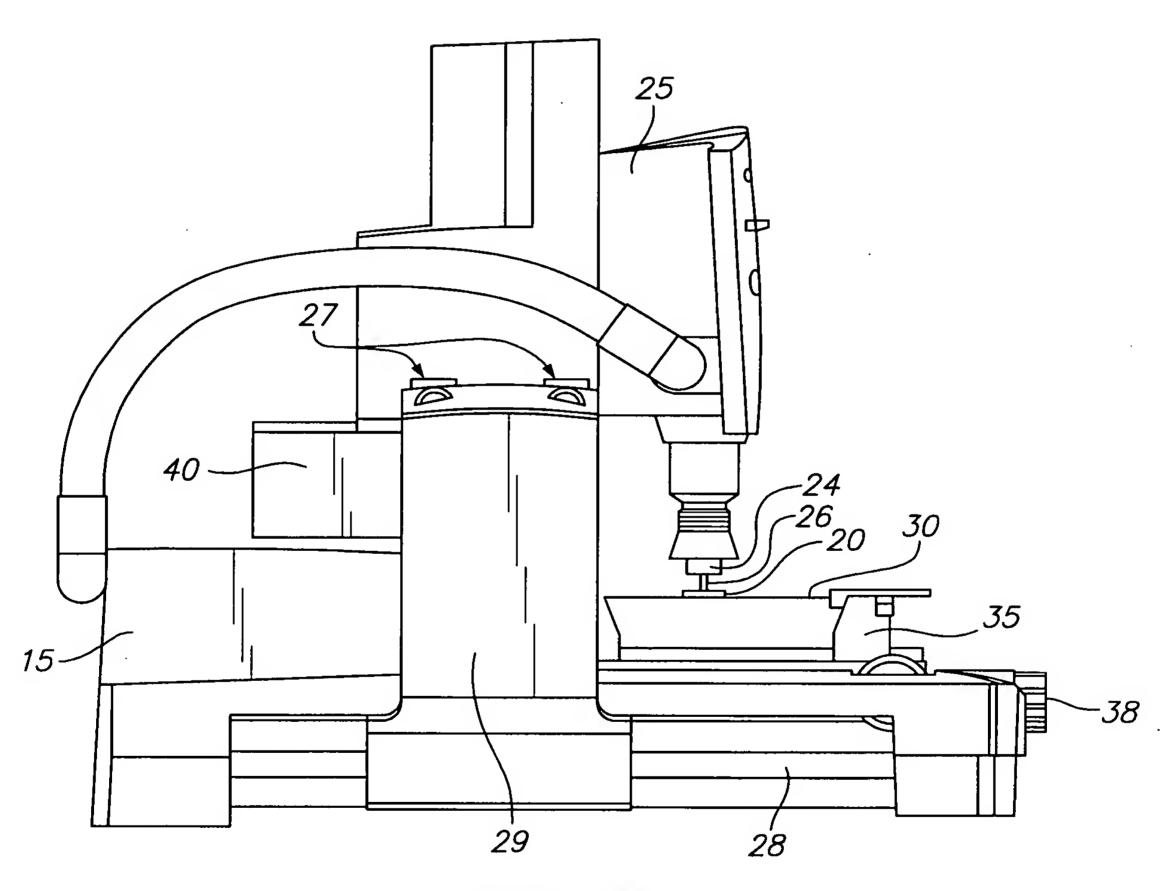
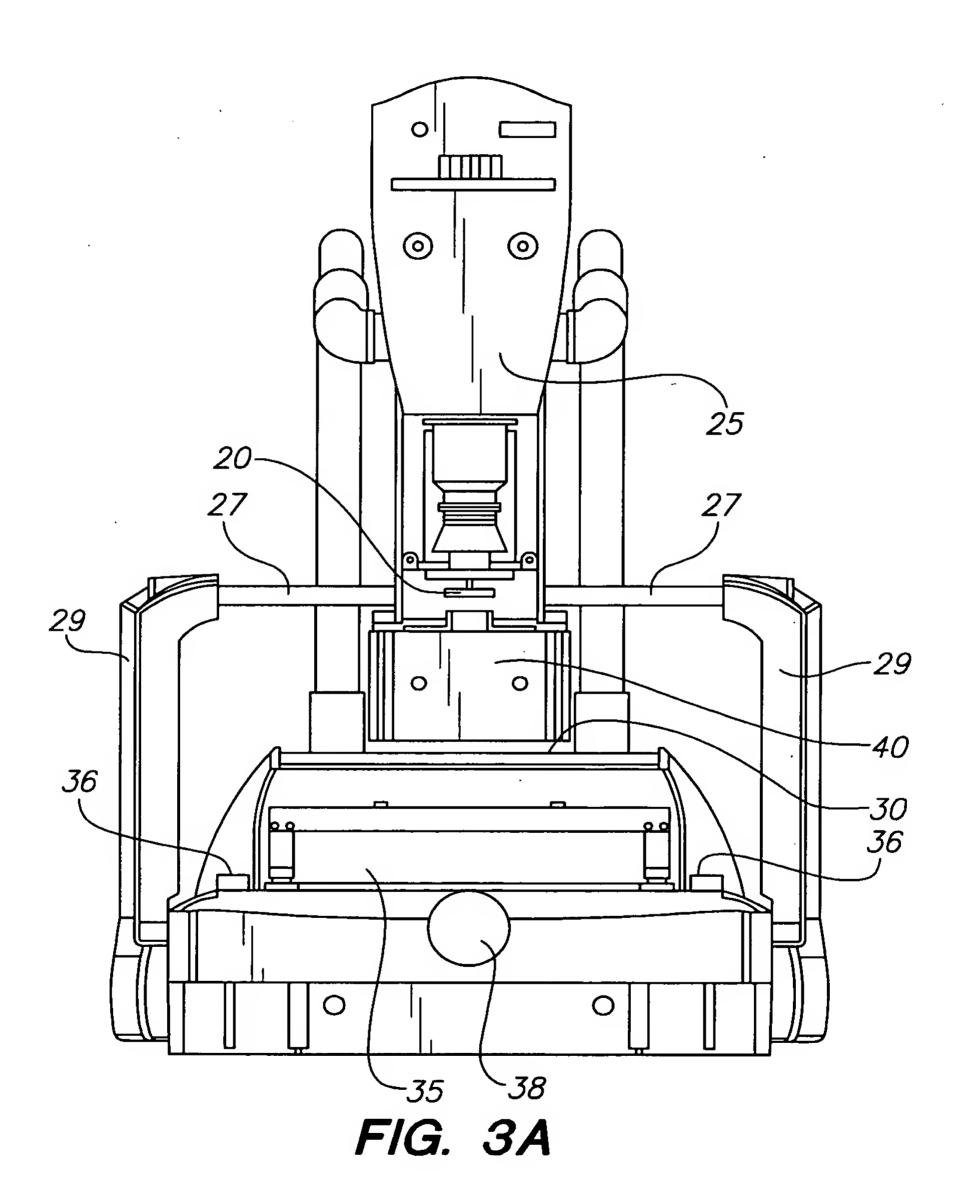


FIG. 2C

TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS

INVENTOR(S): MIKE CARLOMAGNO, ET AL. APPLICATION SERIAL NO: 10/053,252

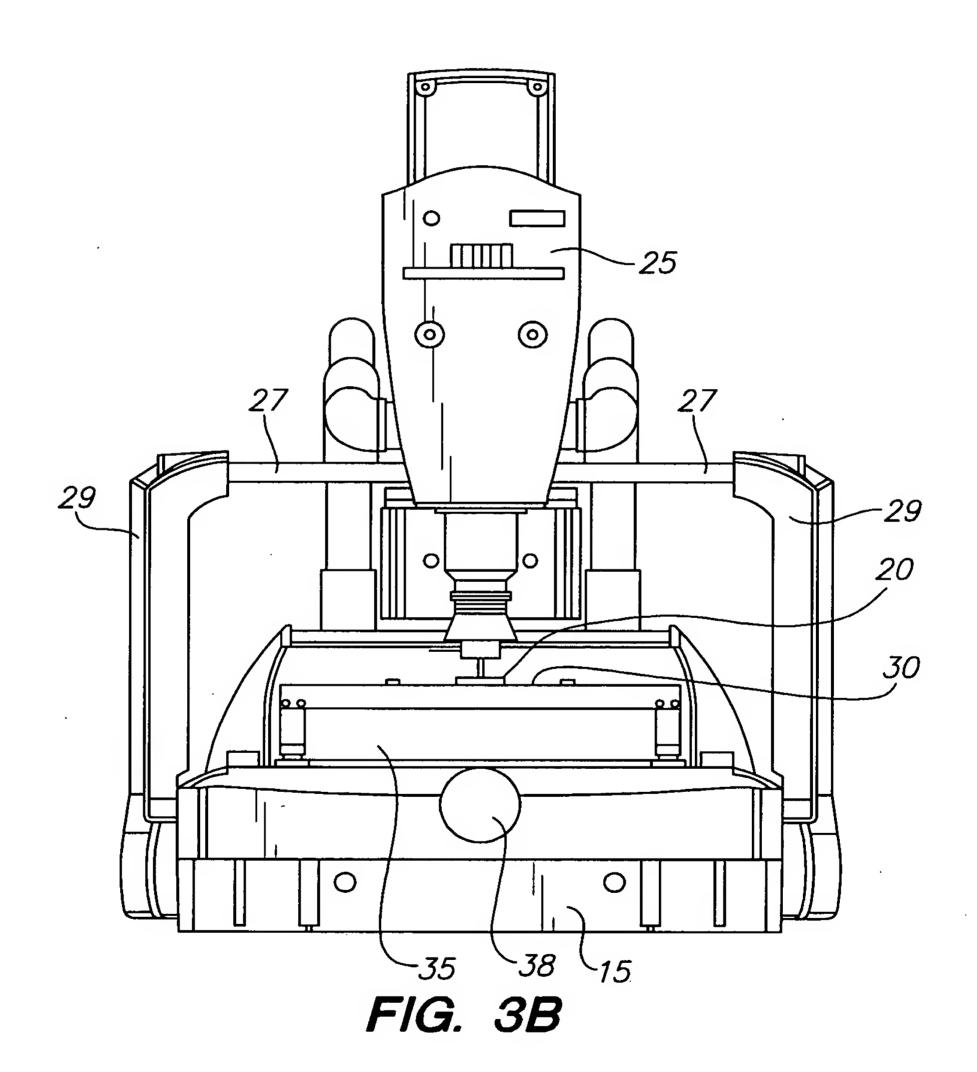
**SHEET 7 of 12** 



TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS

INVENTOR(S): MIKE CARLOMAGNO, ET AL. APPLICATION SERIAL NO: 10/053,252

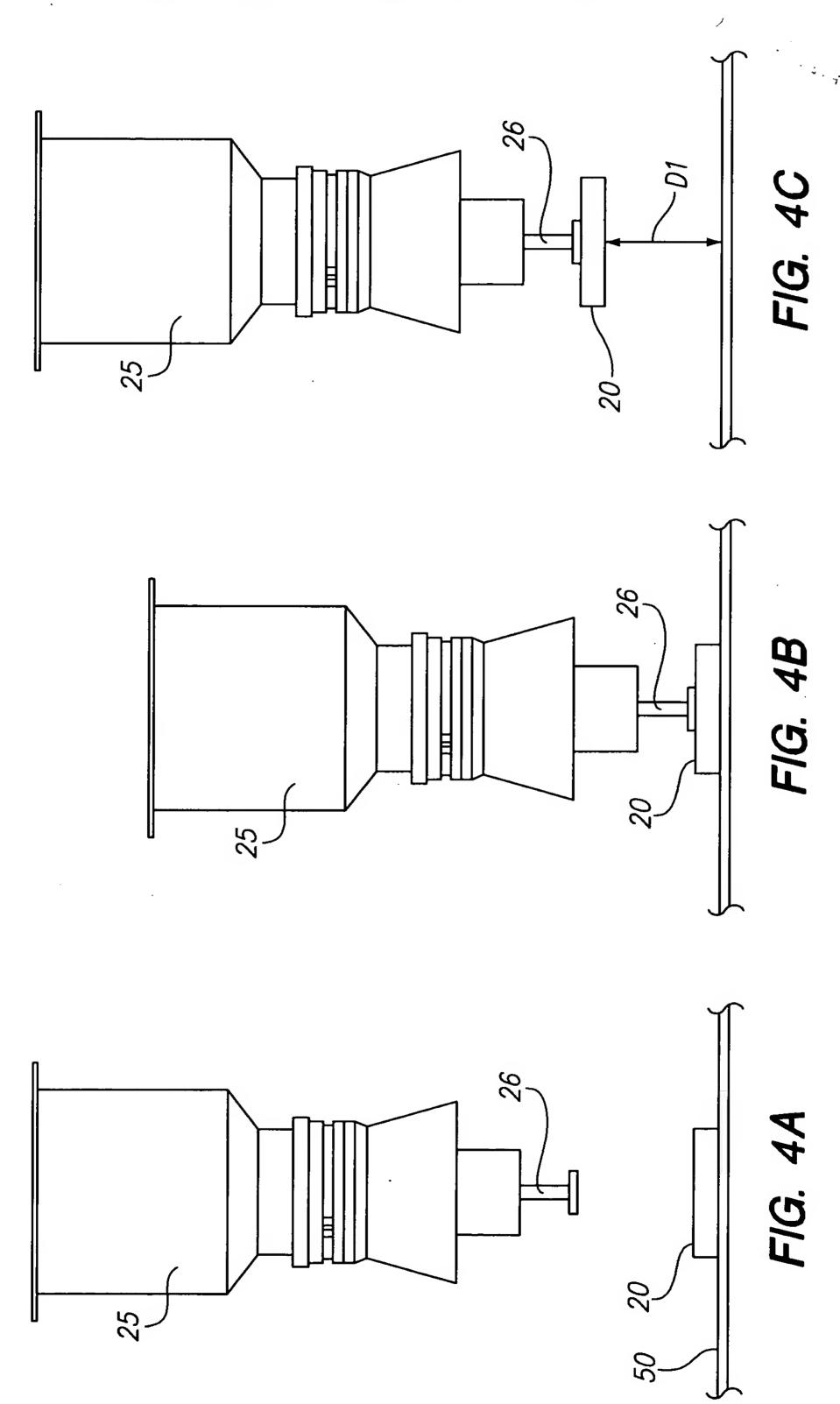
SHEET 8 of 12



APPLN. FILING DATE: NOVEMBER 2, 2001
TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING **ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS** 

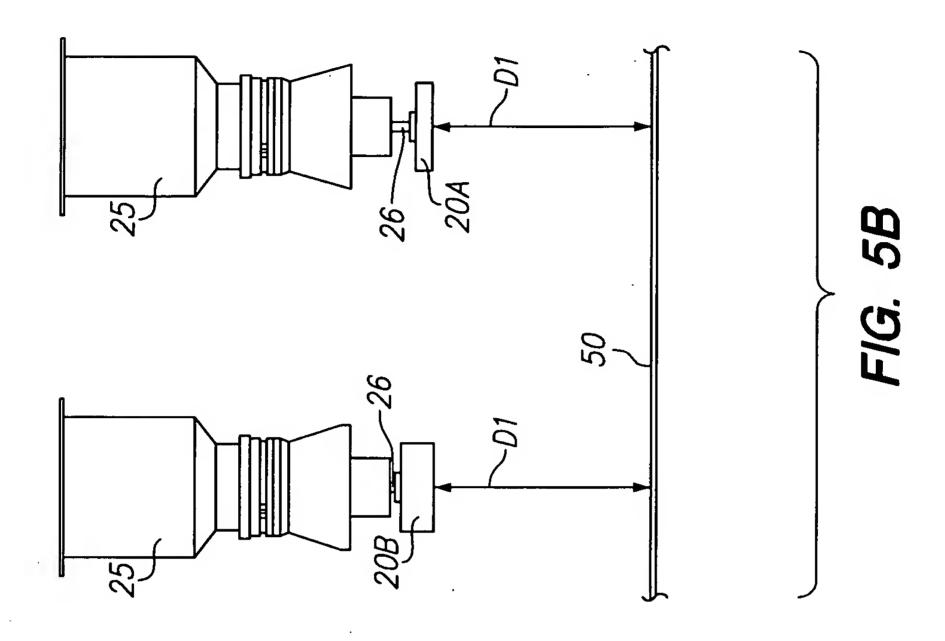
Inventor(s): Mike Carlomagno, et al. Attorney Docket No: 018190-308

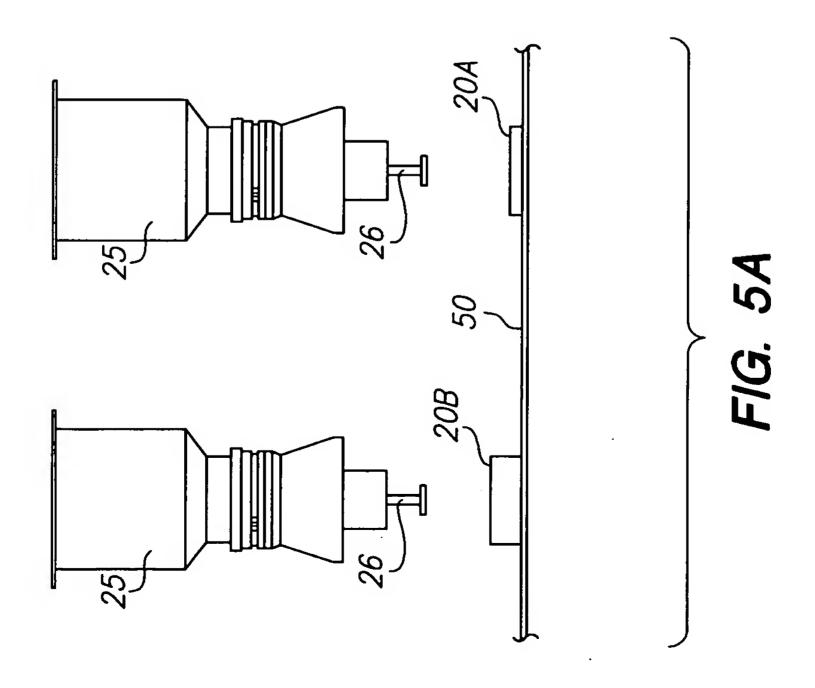
**SHEET 9 of 12** 



TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS

Inventor(s): Mike Carlomagno, et al. Attorney Docket No: 018190-308 **SHEET 10 of 12** 

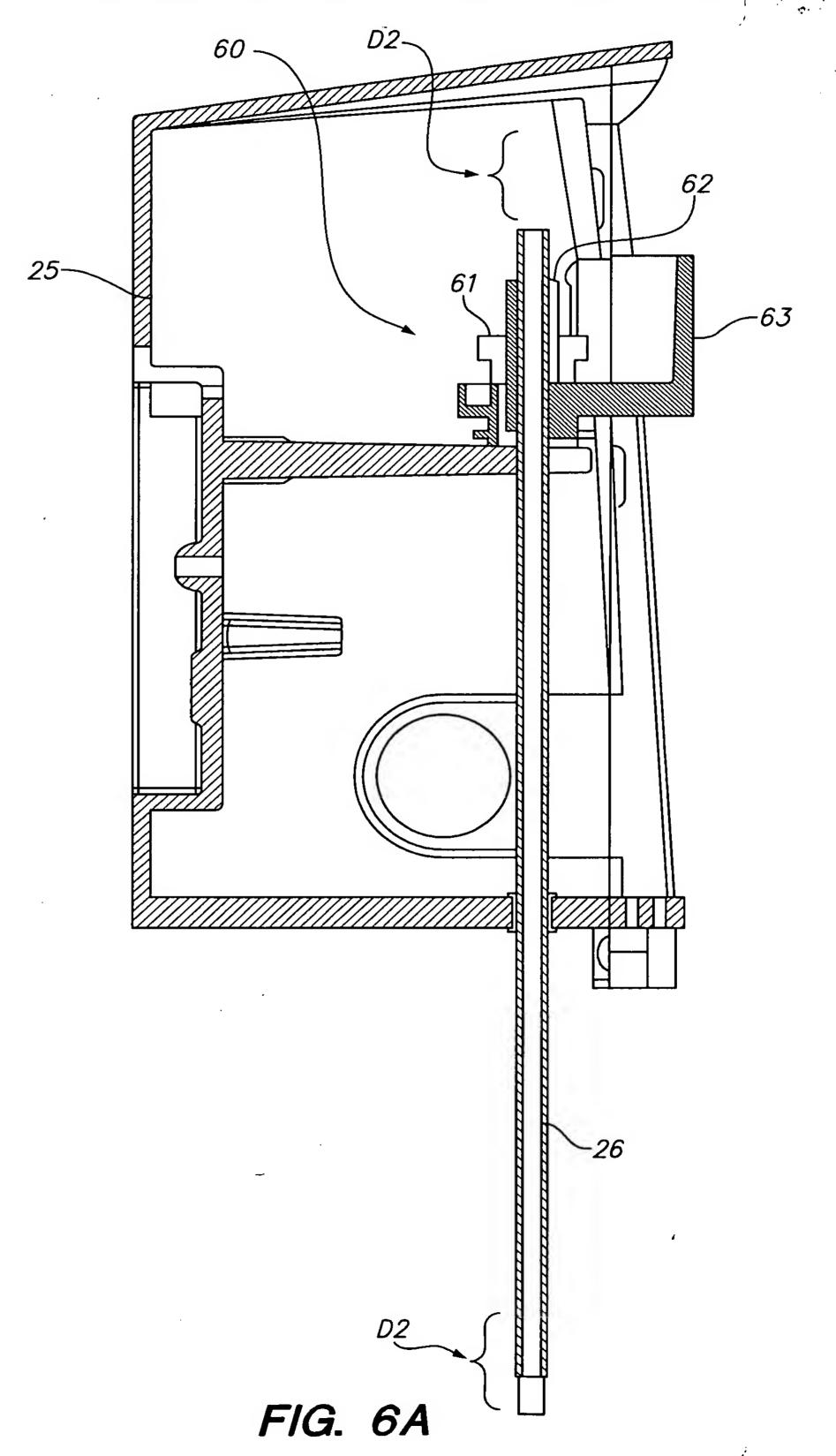




TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS

Inventor(s): Mike Carlomagno, et al. Attorney Docket No: 018190-308

**SHEET 11 of 12** 



TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS

Inventor(s): Mike Carlomagno, et al.

ATTORNEY DOCKET NO: 018190-308

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